



# California Data Exchange Center

## Hydrologic Database System



[webmaster@flood.water.ca.gov](mailto:webmaster@flood.water.ca.gov)

<http://cdec.water.ca.gov>

# Organization

## Division of Flood Management

### Hydrology and Flood Operations

#### Hydrology Branch

California Data  
Exchange Center

Forecasting Section

Snow Surveys Section

State Meteorologist

#### Flood Operations Branch

Flood Project  
Inspection Section

State-Federal  
Flood Operations  
Center

Eureka Flood Center

•  
•  
•

# Objectives

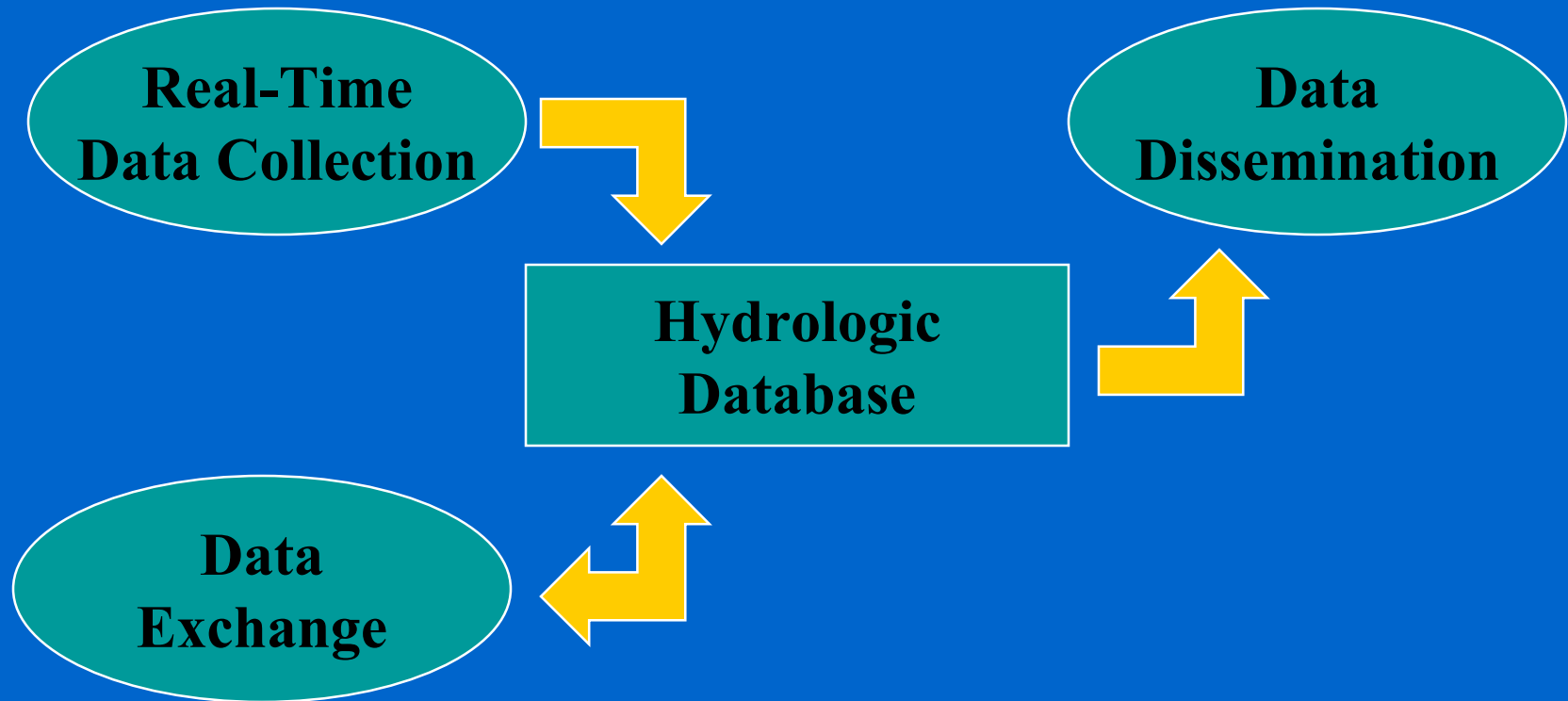
- Collect and disseminate hydrologic and weather information
- Provide a centralized database for user access
- Provide an early flood warning system

•  
•  
•

# Basic Uses of Database

- Early flood warning system
- Monitoring river levels
- Water supply forecasting
- Planning reservoir releases
- Monitor water quality in the Delta
- Recreational use of water ways

# Essential Functions



# Real-Time Data Collection

- Satellite transmissions from remote data stations (513 stations)
- Microwave radio transmissions from remote data stations (123 stations)

# Data Exchange

- Electronic transfer of information between Federal, State and public agencies
- Data from 130 stations are received and stored in centralized database
- Other information includes summary reports and real-time images

# Data Exchange Agencies

- DWR-Operations and Maintenance (O&M)
- National Weather Service (NWS)
- U.S. Bureau of Reclamation (USBR)
- U.S. Army Corps of Engineers (USACE)
- Sacramento Municipal Utility District (SMUD)



# Data Exchange Agencies

- East Bay Municipal Utility District (EBMUD)
- California Environmental Resources Evaluation System (CERES)
- California Department of Transportation (CALTRANS)

# Data Exchange (Receive Data)

Weather forecasts, river bulletins, full weather data  
precipitation maps, river stage maps

**NWS**

**USBR**

Reservoir operations, reservoir summary reports

**USACE**

Reservoir operations, reservoir summary reports,  
precipitation, snow water content

**SMUD**

Reservoir operations, precipitation,  
snow water content, air temperature

**O&M**

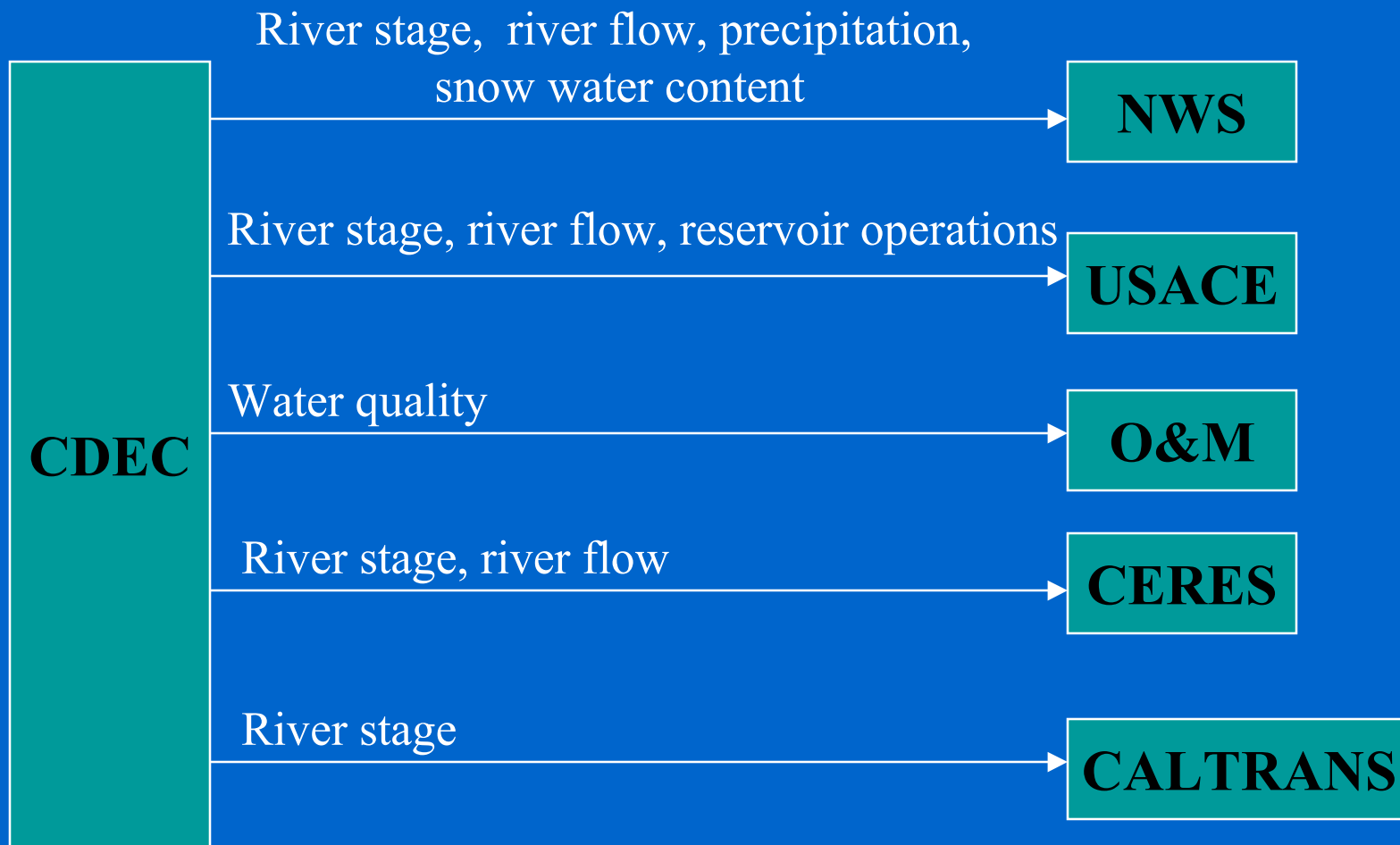
State Water Project operations

**EBMUD**

Reservoir operations

**CDEC**

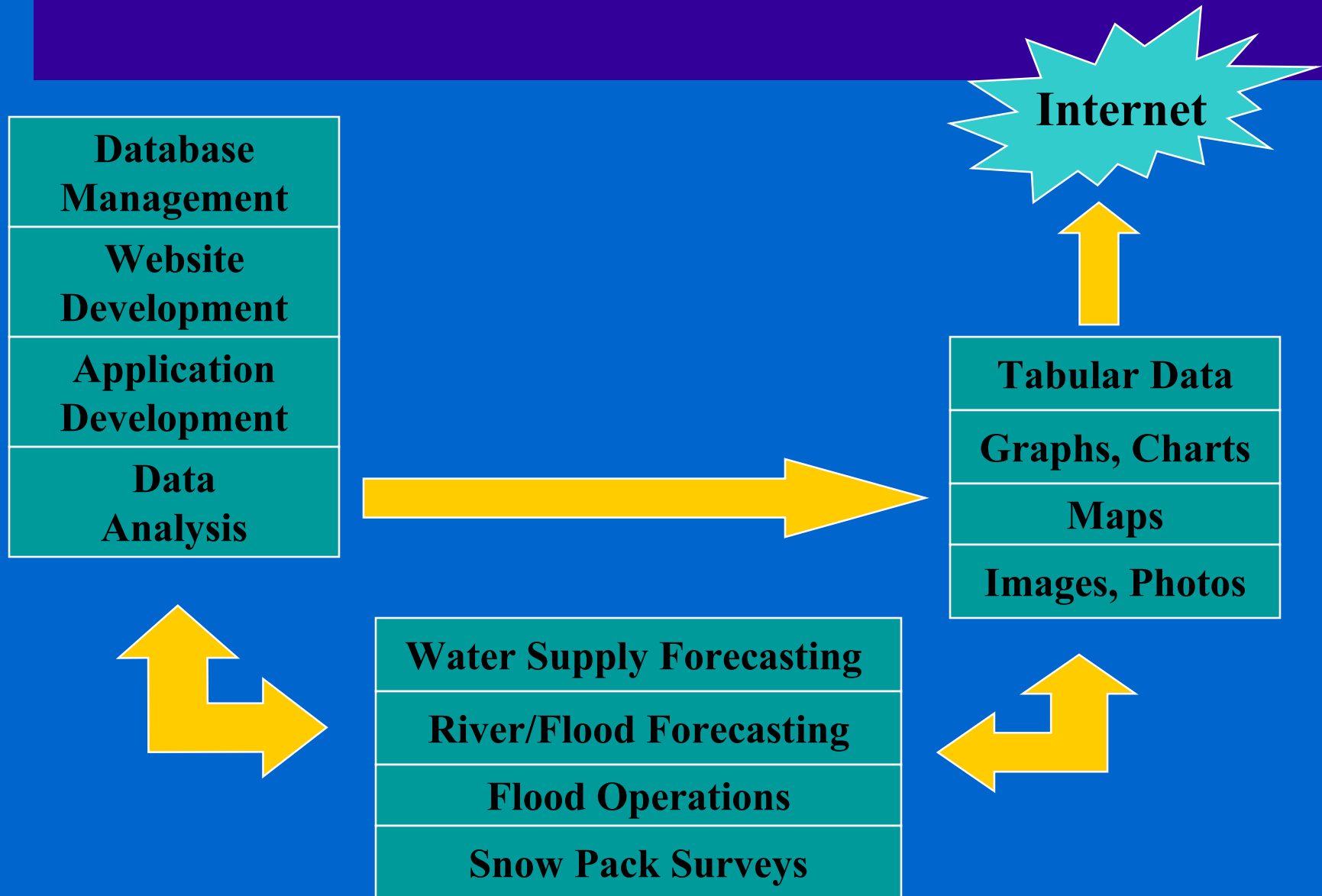
# Data Exchange (Send Data)



# Data Dissemination

- Government and public access
- Internet Web Server
  - (<http://cdec.water.ca.gov>)
- Intranet Web Server
  - (<http://cdec4gov.water.ca.gov>)
- Ability to display data in various ways:  
plots, pictures, photos, maps, etc.

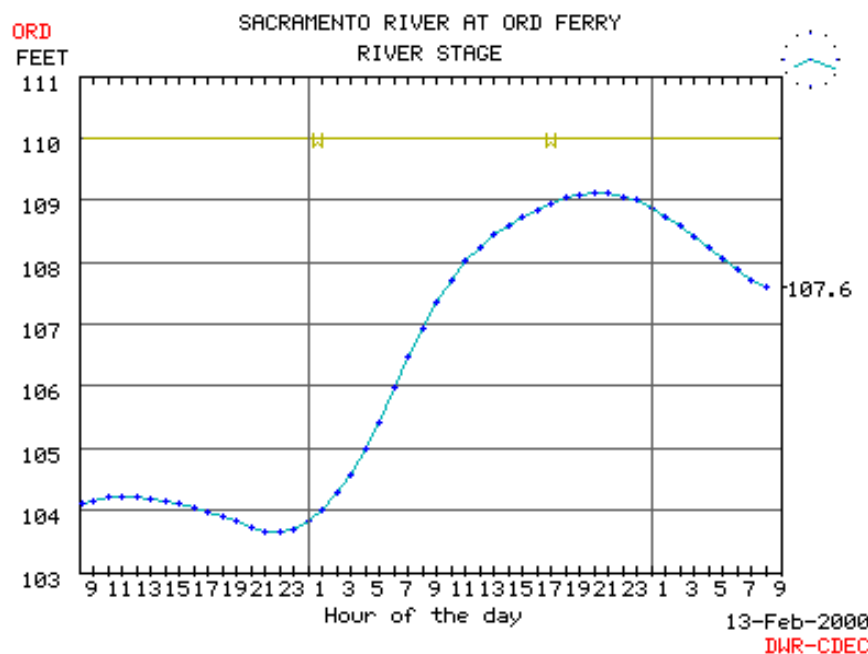
# Data Dissemination





# SACRAMENTO RIVER AT ORD FERRY (ORD)

Elevation: 115' · SACRAMENTO R basin · Operator: CA Dept of Water Resources  
Sensor ID number 1140



Warning stage 110'  
Flood stage 121.6'  
Danger stage 122.6'

Document: Done

Start

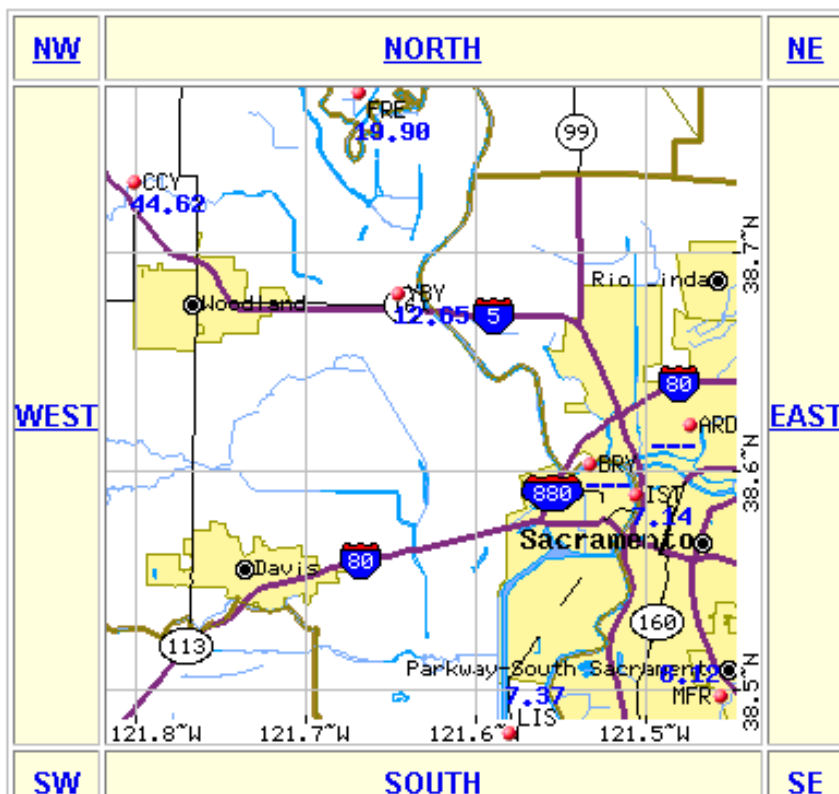
Plot: SACRAMENTO ...

Microsoft PowerPoint - [wc...

8:38 AM















# CDEC Station Locator - Data Retrieval by Geographic Area

Displaying Current Values For Last Hour - Thursday, April 06, 2000 at 8:22:09



Station:  Value:

All stations with real-time River Stage sensors in the area:

- [ARD](#) - ARCADE CREEK  
- [BRY](#) - SACRAMENTO RIVER AT BRYTE 
- [CCY](#) - CACHE CREEK AT YOLO  
- [FRE](#) - FREMONT WEIR (CREST ELEV 33.5)  
- [IST](#) - SACRAMENTO RIVER AT I STREET BRIDGE  
- [LIS](#) - YOLO BYPASS AT LISBON  
- [MFR](#) - MORRISON CREEK AT FLORIN ROAD  
- [YBY](#) - YOLO BYPASS NEAR WOODLAND 



California Snowpack - Netscape

File Edit View Go Communicator Help

Bookmarks Netsite: <http://cdec.water.ca.gov/snow/current/snow/>

## Daily Snowpack

Select a river basin to view, using these links or the map below.

More [background information](#).

[North Coastal Area](#)

[Upper Sacramento River Basins](#) | [Eel River Region](#) | [Feather River](#) | [Yuba and American Rivers](#)

[Mokelumne and Stanislaus Rivers](#) | [Tuolumne and Merced Rivers](#) | [San Joaquin River](#) | [Kings River](#) | [Kaweah and Tule Rivers](#) | [Kern River](#)

[Surprise Valley Area](#) | [Upper Truckee River](#) | [Other Lake Tahoe Basin rivers](#) | [Carson and Walker Rivers](#) | [Mono Lake / Owens Lake Basins](#)



Select a river basin by clicking on one of the green regions

More Maps

Document: Done

Start California Snowpack ... Microsoft PowerPoint - [wc...

8:43 AM